

## SEQUENCE LISTING

<110> Genova Ltd.  
Bougueleret, Lydie  
Cusin, Isabelle

<120> SECRETED POLYPEPTIDE SPECIES ASSOCIATED WITH CARDIOVASCULAR DISORDERS

<130> 4-33628A/GLT (5037-W001)

<150> US 60/484,153

<151> 2003-06-30

<160> 8

<170> PatentIn version 3.1

<210> 1

<211> 456

<212> PRT

<213> Homo sapiens

<400> 1

Met Ile Leu Ser Leu Leu Phe Ser Leu Gly Gly Pro Leu Gly Trp Gly  
1 5 10 15

Leu Leu Gly Ala Trp Ala Gln Ala Ser Ser Thr Ser Leu Ser Asp Leu  
20 25 30

Gln Ser Ser Arg Thr Pro Gly Val Trp Lys Ala Glu Ala Glu Asp Thr  
35 40 45

Gly Lys Asp Pro Val Gly Arg Asn Trp Cys Pro Tyr Pro Met Ser Lys  
50 55 60

Leu Val Thr Leu Leu Ala Leu Cys Lys Thr Glu Lys Phe Leu Ile His  
65 70 75 80

Ser Gln Gln Pro Cys Pro Gln Gly Ala Pro Asp Cys Gln Lys Val Lys  
85 90 95

Val Met Tyr Arg Met Ala His Lys Pro Val Tyr Gln Val Lys Gln Lys  
100 105 110

Val Leu Thr Ser Leu Ala Trp Arg Cys Cys Pro Gly Tyr Thr Gly Pro  
115 120 125

Asn Cys Glu His His Asp Ser Met Ala Ile Pro Glu Pro Ala Asp Pro  
130 135 140

Gly Asp Ser His Gln Glu Pro Gln Asp Gly Pro Val Ser Phe Lys Pro  
145 150 155 160

Gly His Leu Ala Ala Val Ile Asn Glu Val Glu Val Gln Gln Glu Gln  
165 170 175

4-33628 (5037-W001).ST25.txt

Gln Glu His Leu Leu Gly Asp Leu Gln Asn Asp Val His Arg Val Ala  
 180 185 190  
 Asp Ser Leu Pro Gly Leu Trp Lys Ala Leu Pro Gly Asn Leu Thr Ala  
 195 200 205  
 Ala Ser Leu Ser Asn Asp Val Lys Asn Val Gly Arg Cys Cys Glu Ala  
 210 215 220  
 Glu Ala Gly Ala Gly Ala Ala Ser Leu Asn Ala Ser Leu His Gly Leu  
 225 230 235 240  
 His Asn Ala Leu Phe Ala Thr Gln Arg Ser Leu Glu Gln His Gln Arg  
 245 250 255  
 Leu Phe His Ser Leu Phe Gly Asn Phe Gln Gly Leu Met Glu Ala Asn  
 260 265 270  
 Val Ser Leu Asp Leu Gly Lys Leu Gln Thr Met Leu Ser Arg Lys Gly  
 275 280 285  
 Lys Lys Gln Gln Lys Asp Leu Glu Ala Pro Arg Lys Arg Asp Lys Lys  
 290 295 300  
 Glu Ala Glu Pro Leu Val Asp Ile Arg Val Thr Gly Pro Val Pro Gly  
 305 310 315 320  
 Ala Leu Gly Ala Ala Leu Trp Glu Ala Gly Ser Pro Val Ala Phe Tyr  
 325 330 335  
 Ala Ser Phe Ser Glu Gly Thr Ala Ala Leu Gln Thr Val Lys Phe Asn  
 340 345 350  
 Thr Thr Tyr Ile Asn Ile Gly Ser Ser Tyr Phe Pro Glu His Gly Tyr  
 355 360 365  
 Phe Arg Ala Pro Glu Arg Gly Val Tyr Leu Phe Ala Val Ser Val Glu  
 370 375 380  
 Phe Gly Pro Gly Pro Gly Thr Gly Gln Leu Val Phe Gly Gly His His  
 385 390 395 400  
 Arg Thr Pro Val Cys Thr Thr Gly Gln Gly Ser Gly Ser Thr Ala Thr  
 405 410 415  
 Val Phe Ala Met Ala Glu Leu Gln Lys Gly Glu Arg Val Trp Phe Glu  
 420 425 430  
 Leu Thr Gln Gly Ser Ile Thr Lys Arg Ser Leu Ser Gly Thr Ala Phe  
 435 440 445

4-33628 (5037-W001).ST25.txt

Gly Gly Phe Leu Met Phe Lys Thr  
 450 455

<210> 2  
 <211> 433  
 <212> PRT  
 <213> Homo sapiens

<400> 2

Ala Ser Ser Thr Ser Leu Ser Asp Leu Gln Ser Ser Arg Thr Pro Gly  
 1 5 10 15

Val Trp Lys Ala Glu Ala Glu Asp Thr Ser Lys Asp Pro Val Gly Arg  
 20 25 30

Asn Trp Cys Pro Tyr Pro Met Ser Lys Leu Val Thr Leu Leu Ala Leu  
 35 40 45

Cys Lys Thr Glu Lys Phe Leu Ile His Ser Gln Gln Pro Cys Pro Gln  
 50 55 60

Gly Ala Pro Asp Cys Gln Lys Val Lys Val Met Tyr Arg Met Ala His  
 65 70 75 80

Lys Pro Val Tyr Gln Val Lys Gln Lys Val Leu Thr Ser Leu Ala Trp  
 85 90 95

Arg Cys Cys Pro Gly Tyr Thr Gly Pro Asn Cys Glu His His Asp Ser  
 100 105 110

Met Ala Ile Pro Glu Pro Ala Asp Pro Gly Asp Ser His Gln Glu Pro  
 115 120 125

Gln Asp Gly Pro Val Ser Phe Lys Pro Gly His Leu Ala Ala Val Ile  
 130 135 140

Asn Glu Val Glu Val Gln Gln Glu Gln Gln Glu His Leu Leu Gly Asp  
 145 150 155 160

Leu Gln Asn Asp Val His Arg Val Ala Asp Ser Leu Pro Gly Leu Trp  
 165 170 175

Lys Ala Leu Pro Gly Asn Leu Thr Ala Ala Ser Leu Ser Asn Asp Val  
 180 185 190

Lys Asn Val Gly Arg Cys Cys Glu Ala Glu Ala Gly Ala Gly Ala Ala  
 195 200 205

Ser Leu Asn Ala Ser Leu His Gly Leu His Asn Ala Leu Phe Ala Thr  
 210 215 220

Gln Arg Ser Leu Glu Gln His Gln Arg Leu Phe His Ser Leu Phe Gly  
 3

225				230				235				240			
Asn	Phe	Gln	Gly	Leu <sub>245</sub>	Met	Glu	Ala	Asn	Val <sub>250</sub>	Ser	Leu	Asp	Leu	Gly <sub>255</sub>	Lys
Leu	Gln	Thr	Met <sub>260</sub>	Leu	Ser	Arg	Lys	Gly <sub>265</sub>	Lys	Lys	Gln	Gln	Lys <sub>270</sub>	Asp	Leu
Glu	Ala	Pro <sub>275</sub>	Arg	Lys	Arg	Asp	Lys <sub>280</sub>	Lys	Glu	Ala	Glu	Pro <sub>285</sub>	Leu	Val	Asp
Ile	Arg <sub>290</sub>	Val	Thr	Gly	Pro	Val <sub>295</sub>	Pro	Gly	Ala	Leu	Gly <sub>300</sub>	Ala	Ala	Leu	Trp
Glu <sub>305</sub>	Ala	Gly	Ser	Pro	Val <sub>310</sub>	Ala	Phe	Tyr	Ala	Ser <sub>315</sub>	Phe	Ser	Glu	Gly	Thr <sub>320</sub>
Ala	Ala	Leu	Gln	Thr <sub>325</sub>	Val	Lys	Phe	Asn	Thr <sub>330</sub>	Thr	Tyr	Ile	Asn	Ile <sub>335</sub>	Gly
Ser	Ser	Tyr	Phe <sub>340</sub>	Pro	Glu	His	Gly	Tyr <sub>345</sub>	Phe	Arg	Ala	Pro	Glu <sub>350</sub>	Arg	Gly
Val	Tyr	Leu <sub>355</sub>	Phe	Ala	Val	Ser	Val <sub>360</sub>	Glu	Phe	Gly	Pro	Gly <sub>365</sub>	Pro	Gly	Thr
Gly	Gln <sub>370</sub>	Leu	Val	Phe	Gly	Gly <sub>375</sub>	His	His	Arg	Thr	Pro <sub>380</sub>	Val	Cys	Thr	Thr
Gly <sub>385</sub>	Gln	Gly	Ser	Gly	Ser <sub>390</sub>	Thr	Ala	Thr	Val	Phe <sub>395</sub>	Ala	Met	Ala	Glu	Leu <sub>400</sub>
Gln	Lys	Gly	Glu	Arg <sub>405</sub>	Val	Trp	Phe	Glu	Leu <sub>410</sub>	Thr	Gln	Gly	Ser	Ile <sub>415</sub>	Thr
Lys	Arg	Ser	Leu <sub>420</sub>	Ser	Gly	Thr	Ala	Phe <sub>425</sub>	Gly	Gly	Phe	Leu	Met <sub>430</sub>	Phe	Lys

Thr

```
<210> 3
<211> 152
<212> PRT
<213> Homo sapiens
```

**<400> 3**

Glu Ala Glu Pro Leu Val Asp Ile Arg Val Thr Gly Pro Val Pro Gly  
1 5 10 15

Ala Leu Gly Ala Ala Leu Trp Glu Ala Gly Ser Pro Val Ala Phe Tyr  
20 25 30

Ala Ser Phe Ser Glu Gly Thr Ala Ala Leu Gln Thr Val Lys Phe Asn  
 35 40 45

Thr Thr Tyr Ile Asn Ile Gly Ser Ser Tyr Phe Pro Glu His Gly Tyr  
 50 55 60

Phe Arg Ala Pro Glu Arg Gly Val Tyr Leu Phe Ala Val Ser Val Glu  
 65 70 75 80

Phe Gly Pro Gly Pro Gly Thr Gly Gln Leu Val Phe Gly Gly His His  
 85 90 95

Arg Thr Pro Val Cys Thr Thr Gly Gln Gly Ser Gly Ser Thr Ala Thr  
 100 105 110

Val Phe Ala Met Ala Glu Leu Gln Lys Gly Glu Arg Val Trp Phe Glu  
 115 120 125

Leu Thr Gln Gly Ser Ile Thr Lys Arg Ser Leu Ser Gly Thr Ala Phe  
 130 135 140

Gly Gly Phe Leu Met Phe Lys Thr  
 145 150

<210> 4  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 4

Thr Pro Val Cys Thr Thr Gly Gln Gly Ser Gly Ser Thr Ala Thr Val  
 1 5 10 15

Phe Ala Met Ala Glu Leu Gln Lys  
 20

<210> 5  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 5

Val Trp Phe Glu Leu Thr Gln Gly Ser Ile Thr Lys  
 1 5 10

<210> 6  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 6

Ser Leu Ser Gly Thr Ala Phe Gly Gly Phe Leu Met Phe Lys  
 5

1

5

10

<210> 7  
 <211> 1371  
 <212> DNA  
 <213> Homo sapiens

<400> 7  
 atgatcctga gcttgctgtt cagccttggg ggccccctgg gctgggggct gctgggggca 60  
 tggggccagg cttccagtac tagcctctct gatctgcaga gctccaggac acctgggggtc 120  
 tggaaggcag aggctgagga caccggcaag gaccccgtag gacgtaactg gtgcccctac 180  
 ccaatgtcca agctgggtcac cttactagct ctttgcaaaa cagagaaatt cctcatccac 240  
 tcgcagcagc cgtgtccgca gggagctcca gactgccaga aagtcaaagt catgtaccgc 300  
 atggcccaca agccagtgtg ccaggtcaag cagaagggtg tgacctcttt ggcttgaggg 360  
 tgctgcccctg gctacacggg ccccaactgc gagcaccacg attccatggc aatccctgag 420  
 cctgcagatc ctggtgacag ccaccaggaa cctcaggatg gaccagtcag cttcaaactt 480  
 ggccaccttg ctgcagtgat caatgaggtt gaggtgcaac aggaacagca ggaacatctg 540  
 ctgggagatc tccagaatga tgtgcaccgg gtggcagaca gcctgccagg cctgtggaaa 600  
 gccctgcctg gtaacctcac agctgcaagc ctgagcaacg acgtcaagaa tgtcggggcgg 660  
 tgctgcgagg ccgaggccgg ggccggggcc gcctccctca acgcctccct tcacggcctc 720  
 cacaacgcac tcttcgccac tcagcgcagc ttggagcagc accagcggct cttccacagc 780  
 ctctttggga acttccaagg gctcatggaa gccaacgtca gcctggacct ggggaagctg 840  
 cagaccatgc tgagcaggaa agggaagaag cagcagaaag acctggaagc tccccggaag 900  
 agggacaaga aggaagcgga gcctttggtg gacatacggg tcacagggcc tgtgccaggt 960  
 gccttgggcg cggcgctctg ggaggcagga tcccctgtgg ctttctatgc cagcttttca 1020  
 gaagggacgg ctgccctgca gacagtgaag ttcaacacca catacatcaa cattggcagc 1080  
 agctacttcc ctgaacatgg ctacttccga gccctgagc gtggtgtcta cctgtttgca 1140  
 gtgagcgttg aatttgggcc agggccaggc accgggcagc tgggtgttgg aggtcaccat 1200  
 cggactccag tctgtaccac tgggcagggg agtggaagca cagcaacggt ctttgccatg 1260  
 gctgagctgc agaaggggtga gcgagtatgg tttagattaa cccagggatc aataacaaag 1320  
 agaagcctgt cgggcactgc atttgggggc ttctgatgt ttaagacctg a 1371

<210> 8  
 <211> 417  
 <212> PRT  
 <213> Mus musculus

<400> 8

Met Ile Pro Thr Leu Leu Leu Gly Phe Gly Val Tyr Leu Ser Trp Gly  
 1 5 10 15

Leu Leu Gly Ser Trp Ala Gln Asp Pro Gly Thr Lys Phe Ser His Leu

20 25 30  
 Asn Arg Pro Gly Met Pro Glu Gly Trp Arg Leu Gly Ala Glu Asp Thr  
 35 40 45  
 Ser Arg Asp Pro Ile Arg Arg Asn Trp Cys Pro Tyr Gln Lys Ser Arg  
 50 55 60  
 Leu Val Thr Phe Val Ala Ala Cys Lys Thr Glu Lys Phe Leu Val His  
 65 70 75 80  
 Ser Gln Gln Pro Cys Pro Gln Gly Ala Pro Asp Cys Gln Gly Val Arg  
 85 90 95  
 Val Met Tyr Arg Val Ala Gln Lys Pro Val Tyr Gln Val Gln Gln Lys  
 100 105 110  
 Val Leu Ile Ser Val Asp Trp Arg Cys Cys Pro Gly Phe Gln Gly Pro  
 115 120 125  
 Asp Cys Gln Asp His Asn Pro Thr Ala Asn Pro Glu Pro Thr Glu Pro  
 130 135 140  
 Ser Gly Lys Leu Gln Glu Thr Trp Asp Ser Met Asp Gly Phe Glu Leu  
 145 150 155 160  
 Gly His Pro Val Pro Glu Phe Asn Glu Ile Lys Val Pro Gln Glu Gln  
 165 170 175  
 Gln Glu Ile Arg Arg Leu Ser Ser Asp Val Lys Gln Ile Gly Gln Cys  
 180 185 190  
 Cys Glu Ala Ser Trp Ala Ala Ser Leu Asn Ser Ser Leu Glu Asp Leu  
 195 200 205  
 His Ser Met Leu Leu Asp Thr Gln His Gly Leu Arg Gln His Arg Gln  
 210 215 220  
 Leu Phe His Asn Leu Phe Gln Asn Phe Gln Gly Leu Val Ala Ser Asn  
 225 230 235 240  
 Ile Ser Leu Asp Leu Gly Lys Leu Gln Ala Met Leu Ser Lys Lys Asp  
 245 250 255  
 Lys Lys Gln Pro Arg Gly Pro Gly Glu Ser Arg Lys Arg Asp Lys Lys  
 260 265 270  
 Gln Val Val Met Ser Thr Asp Ala His Ala Lys Gly Leu Glu Leu Trp  
 275 280 285  
 Glu Thr Gly Ser Pro Val Ala Phe Tyr Ala Gly Ser Ser Glu Gly Ala  
 7

290	295	300
Thr 305	Ala Leu Gln Met Val 310	Lys Phe Asn Thr Thr Ser Ile Asn Val Gly 315 320
Ser Ser Tyr Phe 325	Pro Glu His Gly Tyr Phe 330	Arg Ala Pro Lys Arg Gly 335
Val Tyr Leu Phe 340	Ala Val Ser Ile Thr 345	Phe Gly Pro Gly Pro Gly Met 350
Gly Gln Leu Val 355	Phe Glu Gly His His Arg Val 360	Pro Val Tyr Ser Thr 365
Glu Gln Arg Gly Gly Ser 370	Thr Ala Thr Thr Phe 375	Ala Met Val Glu Leu 380
Gln Lys Gly Glu Arg Ala 385	Trp Phe Glu Leu Ile 390 395	Gln Gly Ser Ala Thr 400
Lys Gly Ser Gln 405	Pro Gly Thr Ala Phe Gly 410	Gly Phe Leu Met Phe Lys 415
Thr		